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1. Purpose:

- 1.1. The purpose of this document is to describe Silego Green Product management and implementation procedure, and its specification.

2. Scope:

- 2.1. This procedure applies to all Silego products, materials and all business activities including fabrication, assembly, test, receiving, storage and shipping.

3. Responsibilities and Authorities:

- 3.1. The Director of Quality Assurance shall approve Environmental Policy, Objective and Implementation Program.
- 3.2. The purchaser is responsible for including this specification on the purchase orders to related service providers. The service providers are responsible for complying with the requirements of this document.
- 3.3. Packaging Engineering is responsible to review MSDS and substance analysis report of raw materials when qualifying a new package or new factory.


4. Definitions:

- 4.1. Green Product: Product which meets Silego Green Product requirement in Appendix A.
- 4.2. MSDS: Material Safety Data Sheet.
- 4.3. Substance Analysis Report: substance analysis performed by certified analysis lab, usually a 3rd party.
- 4.4. RoHS: Restrictions on the Use of Certain Hazardous Substances in Electrical and Electronic Equipment.
- 4.5. Restricted substance: substance that should be limited in raw material and product below a defined threshold limit.
- 4.6. Banned substance: substance that must not be contained in raw material and product or transfer from Equipment, Process, Tooling as well as Sub-material (packing/packaging component materials or consuming goods used for manufacturing process and equipment).
- 4.7. Silego Hazardous Substance: Any substance is banned/restricted by RoHS 2.0, Sony SS-00259, REACH SVHC list as well as customer requirements.

5. Material: N/A.

6. Reference Materials:

- 6.1. Directive 2011/65/EU of the European Parliament and the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment(RoHS).

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- 6.2. Directive 2008/35/EC of the European Parliament and the Council of 11 March 2008 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
- 6.3. Registration, Evaluation, Authorization & Restriction of Chemical Substances: REACH (Continuously updated).
- 6.4. Sony SS-00259 specification (latest revision)

7. Procedures and Instruction

- 7.1. When a new subcontract manufacturing facility or new/changed material is planned for qualification, the requirements of paragraph 6 – reference materials - shall be stated in the email or letter requesting a quotation.
- 7.2. QA shall review all material MSDS and ICP reports to ensure all materials comply with this specification prior to qualification approval.
- 7.3. ICP test reports shall be updated annually by the subcontract manufacturing facility and saved electronically on the engineering server: path G:\MFG\QA.
- 7.4. Upon initial review of ICP test reports for new manufacturing subcontractors or new materials; or upon annual review of updated ICP test reports for previously qualified materials; should any substance level be found that contravenes the requirements of this specification the material shall be impounded and submitted for MRB disposition. Should any discrepancies be found during the annual review of previously qualified material; the date of the previously accepted ICP test reports shall be used as the boundaries for any containment action that may become necessary.
- 7.5. Requests to perform ICP testing for Pb, Hg, Cd, Cr⁺⁶, PBB and PBDE on inventory that has already been accepted into finished goods inventory must be approved by the Director of QA.
- 7.6. The material analysis shall be performed by laboratories certified to perform the required ICP testing. This certification may be an internal manufacturing certification, ISO 17025 certification or a certification by the country within which the manufacturing facility resides.
- 7.7. Subcontractor must report to Silego within 24Hrs, when any non-conforming event of restricted/banned substance happen, and the affected products shall be isolated immediately.
- 7.8. It needs to get Silego's approval prior the raw material changed.
- 7.9. MSDS shall be updated (or reviewed) once per three years.

8. Records:

- 8.1. All compliance documentation (e.g., test reports and declarations) must be retained for a minimum of ten years. Digital formats are acceptable unless otherwise noted. (same requirement to subcontractors)

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APPENDIX A

Silego Green Product Requirement

Substances	Limit (unit: ppm)	ICP Report	Remark
Latest REACH SVHC(Continuously updated)	1000	Optional	http://echa.europa.eu/web/guest/candidate-list-table
Montreal Protocol	Control	Optional	http://ozone.unep.org/en/handbook-montreal-protocol-substances-deplete-ozone-layer/44
REACH Annex XVII	Control	Optional	http://echa.europa.eu/addressing-chemicals-of-concern/restrictions/substances-restricted-under-reach
Stockholm convention on Persistent Organic Pollutants	Control	Optional	http://chm.pops.int/TheConvention/ThePOPs/AllPOPs/tabid/2509/Default.aspx
Proposition 65 list of chemicals	REPORT	Optional	https://oehha.ca.gov/proposition-65/proposition-65-list
Packing/Packaging components & materials (Cd+Pb+Hg+Cr6+)	80	Mandatory	Packaging & Packaging Waste Directive 94/62/EC
1,3-dichloropropene	BANNED	Optional	
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	BANNED	Optional	
Aminoethyl ethanolamine / Ethanol, 2-[(2-aminoethyl) amino]	REPORT	Optional	Report use of substance
Antimony and its compounds [i.e Antimony Trioxide (Sb2O3.....,etc]	700	Optional	
Arsenic(As) & its compounds	100 / BANNED	Optional	"Metal alloys (Ex: cooper alloys) ≅ 100ppm Wood products(Ex: Pallets): BANNED"
Asbestos	BANNED	Optional	
Benzenamine, N-phenyl-, reaction products with styrene and 2,4,4-trimethylpentene (BNST)	BANNED	Optional	
Benzene	BANNED	Optional	
Benzidine & benzidine dihydrochloride that have the molecular formulas C12H12N2 & C12H12N2.2HCl, respectively	BANNED	Optional	
Beryllium Dust and Fumes	0.0002mg/m3	Optional	Breathing zone<0.0002mg/m3
Beryllium oxide(BeO)	BANNED	Optional	
Beryllium(Be)	1000	Mandatory	ICP report is mandatory for the metal materials
Bismuth and its compounds	1000	Optional	
Bisphenol A(BPA)	BANNED	Optional	
Brominated flame retardants(BFRs)	BANNED	Optional	
Bromine/Chlorine	900 / 900	Mandatory	
Bromine + Chlorine cumulative	1500	Mandatory	
Cadmium & its compounds	50	Mandatory	
Chlorinated flame retardants(CFRs)	1000	Optional	



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Substances	Limit (unit: ppm)	ICP Report	Remark
Chlorinated Organic Solvents	BANNED	Optional	Refer to table-7
Chlorinated paraffins, Short and medium chain (CP, SCCP, MCCP)	BANNED	Optional	Refer to table-2
Cobalt & its compounds	1000	Optional	
Cobalt dichloride	BANNED	Optional	
Dimethyl fumarate (DMF)	0.1	Optional	
Diphenylamine, Substituted (SDPA)	REPORT	Optional	Report use of substance, refer to table-8
Expanded polystyrene (EPS foam)	BANNED	Optional	Applies to South Korea only
Fluorinated greenhouse gases: Hydrofluorocarbon (HFC), Perfluorocarbon (PFC), Sulfur hexafluoride(SF6)	BANNED	Optional	
Formaldehyde	BANNED	Optional	Wood, adhesives, plastics, textile, coatings
Fragrance substance (Musk xylene & musk ketone)	500	Optional	
Halogenated Diphenyl Methanes	BANNED	Optional	
Hexabromocyclododecane (HBCDD) and all major diastereoisomers	BANNED	Optional	
Hexachlorobutadiene(HCBD)	BANNED	Optional	
Hexavalent chromium compounds(Cr6+)	BANNED	Mandatory	
Hydrochlorofluorocarbons(HCFC)	BANNED	Optional	Uses incorporated into product (e.g.refrigerant, heat insulating material & electrical insulating material)
Lacey Act and EU Timber Regulation	BANNED	Optional	
Lead & its compounds	100	Mandatory	
Mercury & its compounds	BANNED	Mandatory	
Methyl-phenol compounds, Phenol, n-methyl- (2,3,4-methyl)	10	Optional	
Nanomaterials	REPORT	Optional	Report use of substance
n-Hexane	28	Optional	
Nickel(Ni) in alloys, plating and compounds	≦0.28ug /cm2	Optional	≦0.28ug/cm2-week leach rate
N-methylpyrrolidone (NMP)	10	Optional	Breathing zone<40mg/m3(10ppm)
Nonylphenol, Nonylphenol Ethoxylate	BANNED	Optional	
n-Propyl Bromide (nPB)/1-Bromopropane	REPORT	Optional	Report use of substance



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Substances	Limit (unit: ppm)	ICP Report	Remark
Organic tin and its compounds	1000	Optional	Refer to table-3
Organotin compounds,Dibutyltin (DBT) compounds	1000	Optional	
Organotin compounds,Dioctyltin (DOT) compounds	1000	Optional	
Other brominated organic compounds	BANNED	Optional	
Other chlorinated organic compounds	BANNED	Optional	
Ozone depleting substances\chemicals (ODS\ODC)	BANNED	Optional	Refer to table-9
Pentachlorophenol(PCP)	5	Optional	
Perchlorates	0.006	Optional	
Perfluorooctane sulfonates (PFOS)	BANNED	Mandatory	Refer to table-4
Perfluorooctanoic acid(PFOA) and individual salts and esters of PFOA	BANNED	Mandatory	Refer to table-4
Phenol,2-(2H-benzotriazol-2-yl)-4, 6-bis(1,1-dimethylethyl)-	BANNED	Optional	Japan law concerning the evaluation of chemical substances
Phthalates & its compounds	900	Optional	Refer to table-5
Phthalates-Benzyl butyl phthalate(BBP)	900	Mandatory	
Phthalates-Bis(2-ethylhexyl) phthalate(DEHP)	900	Mandatory	
Phthalates-Dibutyl phthalate(DBP)	900	Mandatory	
Phthalates-Diisobutyl phthalate(DIBP)	900	Mandatory	
Phthalates-Di-isodecyl phthalate(DIDP)	BANNED	Optional	
Phthalates-Diisononyl phthalate(DINP)	BANNED	Optional	
Phthalates-Di-n-hexyl phthalate(DnHP)	BANNED	Optional	
Phthalates-Di-n-octyl phthalate(DNOP)	900	Optional	
Polyaromatic Aromatic Hydrocarbons(PAH), Anthracene	1	Optional	Refer to table-6
Polybrominated biphenyls (PBBs)	BANNED	Mandatory	
Polybrominated diphenylethers (PBDEs) (including decabromodiphenyl ether [DecaBDE])	BANNED	Mandatory	Refer to table-10
Polychlorinated biphenyls(PCB)	BANNED	Optional	
Polychlorinated naphthalenes(PCN)	BANNED	Optional	



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Substances	Limit (unit: ppm)	ICP Report	Remark
Polychlorinated terhenyls(PCT)	BANNED	Optional	
Polyvinyl chloride (PVC) and PVC blends	BANNED	Optional	
Radioactive Substances	BANNED	Optional	
Red phosphorus(Phosphine, phosphorus flame retardant)	BANNED	Optional	Flame retardant
Selenium and its compounds	1000	Optional	
Specific azo compounds (Aromatic amines released by Azo-based dyes),Azo colourants and azo dyes which from certain aromatic amines	BANNED	Optional	Refer to table-1
Surfactants(DTDMAC+DODMAC+DHTDMAC)	1000	Optional	
Tetrabromobisphenol A(TBBA,TBBPA) additive and reactive	900	Optional	Flame retardant used in PCT laminates and other electrical components
Tetrachlorobenzenes(TeCB)	BANNED	Optional	
Toluene	16	Optional	
Triclosan	10	Optional	
Triphenyl phosphate(PFRs)	REPORT	Optional	
Tris(1,3-dichloro-2-propyl) phosphate(TDCPP)	1000	Optional	
Tris(2-chloro-1-methylethyl) phosphate(TCPP)	1000	Optional	
Tris(2-chloroethyl) phosphate(TCEP)	1000	Optional	
Trisubstituted organic compounds(including tributyltin (TBT) compounds and triphenyltin (TPT) compounds)	BANNED	Optional	


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Table-1: Azo Dyes, Arylamines and Anilines	CAS No.
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0
2,4-Diaminoanisole	615-05-4
4,4'-Thiodianiline	139-65-1
2,4,5-Trimethylaniline	137-17-7
p-Cresidine	120-71-8
3,3'-Dimethylbenzidine	119-93-7
3,3'-Dimethoxybenzidine	119-90-4
4-Chloroaniline	106-47-8
4,4'-Oxydianiline	101-80-4
4,4'-Diaminodiphenylmethane	101-77-9
Bis(4-aminophenyl) ether	101-14-4
2-Amino-4-nitrotoluene	99-55-8
o-Aminoazotoluene	97-56-3
2,4-Diaminotoluene	95-80-7
4-Chloro-2-toluidine	95-69-2
2,4-Xylidine	95-68-1
o-Toluidine	95-53-4
Benzidine	92-87-5
4-Biphenylamine	92-67-1
3,3'-Dichlorobenzidine	91-94-1
2-Naphthylamine	91-59-8
o-Anisidine	90-04-0
2,6-Xylidine	87-62-7
4-Aminoazobenzene	60-09-3
Other Azo and its compounds	-
4,4'-oxydianiline and its salts	-
Table-2: Chlorinated Paraffins (SCCP and MCCP)	CAS No.
Alkanes, C10-26, chloro	97659-46-6
Alkanes, C10-14, chloro	85681-73-8
Alkanes, C12-14, chloro	85536-22-7
Alkanes, C14-17, chloro	85535-85-9
Alkanes, C10-13, chloro	85535-84-8
Alkanes, C10-32, chloro	84776-06-7
Alkanes, C10-21, chloro	84082-38-2
Alkanes, C12-13, chloro	71011-12-6
Alkanes, C6-18, chloro	68920-70-7
Alkanes, chloro	61788-76-9
Alkanes, C10-12, chloro	108171-26-2
Medium-Chain Chlorinated Paraffins (MCCPs) C _x H _{2x+2} -yCl _y , where x=14-17 and y=1-17 [1 item]	Examples
Short-Chain Chlorinated Paraffins (SCCPs) C _x H _{2x+2} -yCl _y , where x=10-13 and y=1-13 [4 items]	Examples
Other Alkane 10-13 Carbon chain and its compounds	-
Table-3: Organotin Compounds	CAS No.



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Dibutyltin (DBT) Compounds	Multiple
Dioctyltin (DOT) Compounds	Multiple
Monobutyltin (MBT) Compounds	Multiple
Monooctyltin (MOT) Compounds	Multiple
Tetrabutyltin (TeBT)	Multiple
Tetraoctyltin (TeOT)	Multiple
Tributyltin (TBT) Compounds	Multiple
Tricyclohexyltin (TCyT) Compounds	Multiple
Triphenyltin (TPhT) Compounds	Multiple
Table-4: Perfluorinated Compounds(PFCs)	CAS No.
Ammonium pentadecafluorooctanoate(APFO)	3825-26-1
Ethyl perfluorooctanoate	3108-24-5
Potassium salt of Perfluorooctanoic acid	2395-00-8
Methyl perfluorooctanoate	376-27-2
Sodium salt of Perfluorooctanoic acid	335-95-5
Silver(1+) salt of Perfluorooctanoic acid	335-93-3
Perfluorooctanoic Acid(PFOA) and compounds	335-67-1
Perfluorooctanoyl fluoride	335-66-0
Perfluorooctane Sulfonates(PFOS) and compounds	70225-39-5
	24448-09-7
	29457-72-5
	29081-56-9
	2991-50-6
	2806-24-8
	2795-39-3
	2355-31-9
	1763-23-1
	1691-99-2
754-91-6	
Table-5: Phthalates	CAS No.
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate	68515-51-5 68648-93-1
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0
Di-isodecyl phthalate (DIDP)	26761-40-0 68515-49-1
n-Pentyl-isopentyl phthalate (nPIPP)	776297-69-9
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP)	84777-06-0
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6
1,2-Benzenedicarboxylic acid, dihexylester, branched and linear	68515-50-4
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkylesters (DHNUP)	68515-42-4
Bis(2-propylheptyl) phthalate (DPrHP)	53306-54-0
Di-iso-pentyl phthalate (DIPP)	605-50-5



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Di-n-pentyl phthalate (DnPP)	131-18-0
Dimethyl phthalate (DMP)	131-11-3
Di-n-Octyl phthalate (DNOP)	117-84-0
Bis-(2-methoxyethyl phthalate (DMEP)	117-82-8
Diethylhexyl phthalate (DEHP)	117-81-7
Di-n-hexyl phthalate (DnHP)	84-75-3
Dibutyl phthalate (DBP)	84-74-2
Diisobutyl phthalate (DIBP)	84-69-5
Diethyl phthalate (DEP)	84-66-2
Butylbenzyl phthalate (BBP)	85-68-7
Table-6: Polycyclic Aromatic Hydrocarbons (PAHs)	CAS No.
Anthracene oil, anthracene paste, distn. lights	91995-17-4
Anthracene oil, anthracene paste, anthracene fraction	91995-15-2
Anthracene oil, anthracene-low	90640-82-7
Anthracene oil	90640-80-5
Dibenzo(a,e)fluoranthene	5385-75-1
5-Methylchrysene	3697-24-3
Dibenz(a,h)acridine	226-36-8
Dibenz(a,j)acridine	224-42-0
Benzo(a)phenanthrene(chrysene)	218-01-9
Acenaphthylene	208-96-8
Benzo(k)fluoranthene	207-08-9
Benzo(j,k)fluorene(Fluoranthene)	206-44-0
Benzo(b)fluoranthene	205-99-2
Benzo(j)fluoranthene	205-82-3
7H-Dibenzo(c,g)carbazole	194-59-2
Indeno(1,2,3-cd)pyrene	193-39-5
Benzo(e)pyrene	192-97-2
Dibenzo(a,e)pyrene	192-65-4
Dibenzo(a,l)pyrene	191-30-0
Benzo(g,h,i)perylene	191-24-2
Dibenzo(a,h)pyrene	189-64-0
Benzo(r,s,t)pentaphene	189-55-9
Pyrene	129-00-0
Anthracene	120-12-7
Naphthalene	91-20-3
Fluorene	86-73-7
Phenanthrene	85-01-8
Acenaphthene	83-32-9
Benzo(a)anthracene	56-55-3
Dibenzo(a,h)anthracene	53-70-3
Benzo(a)pyrene	50-32-8
Table-7: Chlorinated Organic Solvents	CAS No.



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1,1,1,2-Tetrachloroethane	630-20-6
trans-1,2-Dichloroethylene	156-60-5
cis-1,2-Dichloroethylene	156-59-2
Tetrachloroethylene	127-18-4
Dibromochloromethane	124-48-1
1,2-Dichloroethane	107-06-2
1,1,2,2-Tetrachloroethane	79-34-5
Trichloroethylene	79-01-6
1,1,2-Trichloroethane	79-00-5
Pentachloroethane	76-01-7
1,1-Dichloroethylene	75-35-4
1,1-Dichloroethane	75-34-3
Bromodichloromethane	75-27-4
Methylene chloride	75-09-2
Chloroethane	75-00-3
Methyl chloride	74-87-3
1,1,1-Trichloroethane	71-55-6
Hexachloroethane	67-72-1
Chloroform	67-66-3
Carbon	56-23-5
Table-8: Diphenylamines, Substituted(SDPA)	CAS No.
Benzenamine,N-phenyl-,reaction products with isobutylene and 2,4,4-trimethylpentene	184378-08-3
Benzenamine,N-phenyl-,(tripropenyl)derivatives	68608-79-7
Benzenamine,2-ethyl-N-(2-ethylphenyl)-,(tripropenyl)derivatives	68608-77-5
Benzenamine,N-phenyl-,styrenated	68442-68-2
Benzenamine,N-phenyl-,reaction products with 2,4,4-trimethylpentene	68411-46-1
Benzenamine,ar-nonyl-N-(nonylphenyl)-	36878-20-3
Benzenamine,ar-nonyl-N-phenyl-	27177-41-9
Benzenamine,ar-octyl-N-(octylphenyl)-	26603-23-6
Benzenamine,4-nonyl-N-(4-nonylphenyl)-	24925-59-5
Benzenamine,4-(1,1,3,3-tetramethylbutyl)-N-[4-(1,1,3,3-tetramethylbutyl)phenyl]-	15721-78-5
Benzenamine,4-(1-methyl-1-phenylethyl)-N-[4-(1-methyl-1-phenylethyl)phenyl]-	10081-67-1
Benzenamine,4-octyl-N-phenyl-	4175-37-5
Benzenamine,4-octyl-N-(4-octylphenyl)-	101-67-7
Table-9: Ozone Depleting Substances/Chemicals & Greenhouse Gas	CAS No.
Trichlorotrifluoropropane (HCFC-233) 1,1,1-Trichloro-3,3,3-trifluoropropane (HCFC-233fb)	134237-40-4 7125-84-0 7125-83-9
Hexachlorofluoropropane (HCFC-221)	134237-35-7 29470-94-8
Trichlorofluoroethane (HCFC-131)	27154-33-2, 134237-34-6
Pentachlorotrifluoropropane (CFC-213)	2354-06-5 134237-31-3



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Chlorotrifluoroethane (HCFC-133)	1330-45-6 431-07-2
Monochloroheptafluoropropane (CFC-217)	422-86-6 76-18-6
Heptachlorofluoropropane (CFC-211)	422-78-6 135401-87-5
HFC-43-10mee (C5H2F10)	138495-42-8
1,3-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC-225ea)	136013-79-1
1,1-Dichloro-1,2,2,3,3-pentafluoropropane (HCFC-225cc)	13474-88-9
Chlorohexafluoropropane (HCFC-226)	134308-72-8
Dichlorofluoropropane (HCFC-261)	134237-45-9
Chlorotrifluoropropane (HCFC-253)	134237-44-8
Dichlorotrifluoropropane (HCFC-243)	134237-43-7
Trichlorodifluoropropane (HCFC-242)	134237-42-6
Chloropentafluoropropane (HCFC-235)	134237-41-5
Tetrachlorodifluoropropane (HCFC-232)	134237-39-1
Trichlorotetrafluoropropane (HCFC-224)	134237-38-0
Tetrachlorotrifluoropropane (HCFC-223)	134237-37-9
Pentachlorodifluoropropane (HCFC-222)	134237-36-8
Tetrachlorofluoroethane (HCFC-121)	134237-32-4
Chlorofluoropropane (HCFC-271)	134190-54-8
Chlorodifluoropropane (HCFC-262)	134190-53-7
Dichlorodifluoropropane (HCFC-252)	134190-52-6
Trichlorofluoropropane (HCFC-251)	134190-51-5
Chlorotetrafluoropropane (HCFC-244)	134190-50-4
Tetrachlorofluoropropane (HCFC-241)	134190-49-1
Pentachlorofluoropropane (HCFC-231)	134190-48-0
2,2-Dichloro-1,1,1,3,3-pentafluoropropane (HCFC-225aa)	128903-21-9
Dichloropentafluoropropane (HCFC-225)	127564-92-5
Dichlorotetrafluoropropane (HCFC-234)	127564-83-4
1,1-Dichloro-1,2,3,3,3-pentafluoropropane (HCFC-225eb)	111512-56-2
Chlorofluoroethane (HCFC-151)	110587-14-9
2-Chloro-1,3-difluoropropane (HCFC-262da)	102738-79-4
Dichloro-1,1,2-trifluoroethane	90454-18-5
Tribromofluoropropane	75372-14-4
HBFC-243B2(C3H3F3Br2)	70192-83-5
Tribromodifluoropropane	70192-80-2
Chlorotetrafluoroethane (HCFC-124)	63938-10-3
Dibromofluoropropane	51584-26-0
Trichlorodifluoroethane (HCFC-122)	41834-16-6
Dichlorotrifluoroethane (HCFC-123)	34077-87-7
Tetrachlorotetrafluoropropane (CFC-214)	29255-31-0
CFC-112(C2F2C14)	28605-74-5



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Dichlorodifluoroethane (HCFC-132)	25915-78-0
Chlorodifluoroethane (HCFC-142)	25497-29-4
Dichlorofluoroethane (HCFC-141)	25167-88-8
1,1-Dichloro-1-fluoropropane (HCFC-261fc)	7799-56-6
1,1-dichloro-1,2,2-trifluoropropane	7125-99-7
1,1,1-Trichloropentafluoropropane (CFC-215cb)	4259-43-2
Hexachlorodifluoropropane (CFC-212)	3182-26-1
2-chloro-1,1,1,2-tetrafluoroethane	2837-89-0
Sulfur Hexafluoride (SF6)	2551-62-4
1,1,1-trichloro-2-fluoroethane (HCFC-131b)	2366-36-1
Trifluoroiodomethane (trifluoromethyl iodide)	2314-97-8
1,2,2,3-Tetrachloro-1,1,3,3-tetrafluoropropane (CFC-214aa)	2268-46-4
Bromohexafluoropropane	2252-78-0
Bromofluoropropane	1871-72-3
Dibromofluoromethane	1868-53-7
1,1-Dichloro-1,2-difluoroethane (HCFC-132c)	1842-05-3
1,1-Dichloro-1-fluoroethane (HCFC-141b)	1717-00-6
1,1,3-trichloro-1,2,2,3,3-pentafluoropropane(C3Cl3F5)	1652-81-9
1,2-Dichloro-1,1-difluoroethane (HCFC-132b)	1649-08-7
1-Chloro-1-fluoroethane (HCFC-151a)	1615-75-4
1,2,2-Trichloropentafluoropropane (CFC-215aa)	1599-41-3
Trichloropentafluoropropane (CFC-215)	1599-41-3
Bromodifluoromethane	1511-62-2
1-Chloro-1,2,2-trifluoroethane (HCFC-133)	1330-45-6
CFC-114(C2F4C12)	1320-37-2
1,3-Dicloro-1,1-difluoropropane (HCFC-252fb)	819-00-1
1,1,3-Trichloro-1-fluoropropane (HCFC-251fb)	818-99-5
1,1-dichloro-1,2,2-trifluoroethane (HCFC-123b)	812-04-4
HFC-134a (CH2FCF3)	811-97-2
1,1,2-Trichloro-1-fluoroethane (HCFC-131a)	811-95-0
1-Chloro-2-fluoroethane (HCFC-151)	762-50-5
Bromofluoroethane	762-49-2
HFC-236fa (C3H2F6)	690-39-1
HFC-245ca (C3H3F5)	679-86-7
3-Chloro-1,1,2,2-tetrafluoropropane (HCFC-244ca)	679-85-6
Bromotetrafluoropropane	679-84-5
Perfluoropentane (Dodecafluoropentane)	678-26-2
HFC-236cb (CH2FCF2CF3)	677-56-5
1,1,2,3-Tetrachloro-1-fluoropropane (HCFC-241db)	666-27-3
Dichlorohexafluoropropane (CFC-216)	661-97-2
1,2-difluoroethane(HFC-152)	624-72-6
Chlorofluoromethane (HCFC-31)	593-70-4
HFC-41 (CH3F)	593-53-3



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1,3-Dichloro-1,1,2,2,3-pentafluoropropane (HCFC-225cb)	507-55-1
1,1-Dichloro-2,2-difluoroethane (HCFC-132a)	471-43-2
1-Chloro-1,1,3,3,3-pentafluoropropane (HCFC-235fa)	460-92-4
1,1,1,3-Tetrachloro-3,3-difluoropropane (HCFC-232fc)	460-89-9
Bromopentafluoropropane	460-88-8
HFC-245fa (CHF ₂ CH ₂ CF ₃)	460-73-1
3,3-dichloro-1,1,1-trifluoropropane	460-69-5
1,3,3,Trichloro-1,1-difluoropropane (HCFC-242fa)	460-63-9
3-chloro-1,1,1-trifluoropropane (HCFC-253fb)	460-35-5
Dibromodifluoropropane	460-25-3
HFC-227ea (C ₃ H ₇ F ₇)	431-89-0
2-Chloro-1,1,1,3,3,3-hexafluoro-propane (HCFC-226da)	431-87-8
1,2-Dichloro-1,1,3,3,3-pentafluoropropane (HCFC-225da)	431-86-7
Dibromopentafluoropropane	431-78-7
HFC-236ea (CHF ₂ CHFCF ₃)	431-63-0
Dibromotrifluoropropane	431-21-0
1,2-Dichloro-1,2-difluoroethane (HCFC-132)	431-06-1
HFC-143 (C ₂ H ₃ F ₃)	430-66-0
1,2-Dichloro-1-fluoroethane (HCFC-141)	430-57-9
1-Chloro-1-fluoropropane (HCFC-271fb)	430-55-7
1,1-Dichloro-2-fluoroethane (HCFC-141a)	430-53-5
1,2-Dichloro-1,2,3,3-tetrafluoropropane (HCFC-234db)	425-94-5
1,1,1,2,3,3,3-Heptachloro-2-fluoropropane (CFC-211ba)	422-81-1
1,1,1,2,2,3,3-Heptachloro-3-fluoropropane (CFC-211aa)	422-78-6
3,3-Dichloro-1,1,1,2,2-pentafluoropropane (HCFC-225ca)	422-56-0
1,3,3-Trichloro-1,1,2,2-tetrafluoropropane (HCFC-224ca)	422-54-8
1,1,3-Trichloro-1,2,2,3-tetrafluoropropane (HCFC-224cb)	422-53-7
1,1,3,3-Tetrachloro-1,2,2-trifluoropropane (HCFC-223ca)	422-52-6
1,1,1-Trichloro-2,2,3,3-tetrafluoropropane (HCFC-224cc)	422-51-5
1,1,1,3-Tetrachloro-2,2,3-trifluoropropane (HCFC-223cb)	422-50-4
1,1,1,3,3-pentachloro-2,2-difluoropropane (HCFC-222ca)	422-49-1
2,3-Dichloro-1,1,1,2,3-pentafluoropropane (HCFC-225ba)	422-48-0
1,2-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC-225bb)	422-44-6
1,2,2,3,3-pentachloro-1,1-difluoropropane (HCFC-222aa)	422-30-0
1,1,1,2,2,3-Hexachloro-3-fluoropropane (HCFC-221ab)	422-26-4
1,1,1,2,3-pentachloro-2-fluoro-propane (HCFC-231bb)	421-94-3
1-Chloro-1,1,2,2-tetrafluoropropane (HCFC-244cc)	421-75-0
Bromotrifluoropropane	421-46-5
1,1,2-Trichloro-1-fluoropropane (HCFC-251dc)	421-41-0
Bromotrifluoroethane	421-06-7
1-Chloro-1,1,2-trifluoroethane (HCFC-133b)	421-04-5
1-Chloro-1,1-difluoropropane (HCFC-262fc)	421-02-3
1-Chloro-2,2-difluoropropane (HCFC-262ca)	420-99-5



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1,2-Dichloro-2-fluoro-propane (HCFC-261ba)	420-97-3
Bromodifluoroethane	420-47-3
HFC-143a (C2H3F3)	420-46-2
2-Chloro-2-fluoropropane (HCFC-271ba)	420-44-0
HFC-365mfc (CF3CH2CF2CH3)	406-58-6
Bromofluoromethane	373-52-4
HFC-134 (C2H2F4)	359-35-3
1-Fluoro-1,2,2-trichloroethan	359-28-4
Dibromofluoroethane	358-97-4
Perfluorohexane (Tetradecafluorohexane)	355-42-0
Perfluorobutane (Decafluorobutane)	355-25-9
1,1,1-Trichloro-2,2,2 trifluoroethane (CFC-113a)	354-58-5
Pentachlorofluoroethane (CFC-111)	354-56-3
HFC-125 (C2HF5)	354-33-6
1-chloro-1,1,2,2-tetrafluoroethane (HCFC-124a)	354-25-6
1,2-dichloro-1,1,2-trifluoroethane (HCFC-123a)	354-23-4
1,2,2-Trichloro-1,1-difluoroethane (HCFC-122)	354-21-2
1,1,2-Trichloro-1,2-difluoroethane (HCFC-122a)	354-15-4
1,1,2,2-Tetrachloro-1-fluoroethane (HCFC-121)	354-14-3
1,1,1-Trichloro-2,2-difluoroethane (HCFC-122b)	354-12-1
1,1,1,2-Tetrachloro-2-fluoroethane (HCFC-121a)	354-11-0
Dibromotrifluoroethane	354-04-1
Bromochlorodifluoromethane (Halon 1211)	353-59-3
Fluoroethane(HFC-161)	353-36-6
HBFC-271B1(C3H5FBr)	352-91-0
2,3-dichloro-1,1,1-trifluoropropane	338-75-0
2-Chloro-1,1-Difluoroethane (HCFC-142)	338-65-8
1-Chloro-1,2-difluoroethane (HCFC-142a)	338-64-7
2,2-dichloro-1,1,1-trifluoroethane	306-83-2
Tetrabromofluoroethane	306-80-9
Dibromotetrafluoroethane (Halon 2402)	124-73-2
Bromotetrafluoroethane	124-72-1
Perfluorocyclobutane	115-25-3
1-Bromopropane (n-propyl bromide) (reportable only)	106-94-5
Perfluoropropane (Octafluoropropane)	76-19-7
1,2,3-Trichloropentafluoropropane (CFC-215ba)	76-17-5
Perfluoroethane (Hexafluoroethane)	76-16-4
Monochloropentafluoroethane (CFC-115)	76-15-3
Dichlorotetrafluoroethane (CFC-114)	76-14-2
1,1,2-Trichloro-1,2,2 trifluoroethane (CFC-113)	76-13-1
1,1,2,2-Tetrachloro-1,2-difluoroethane (CFC-112)	76-12-0
1,1,1,2-Tetrachloro-2,2-difluoroethane (CFC-112a)	76-11-9
2-Chloro-1,1,1-trifluoroethane (HCFC-133a)	75-88-7




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Dibromodifluoroethane	75-82-1
Carbon tetrafluoride (Perfluoromethane)	75-73-0
Chlorotrifluoromethane (CFC-13)	75-72-9
Dichlorodifluoromethane (CFC-12)	75-71-8
Trichlorofluoromethane (CFC-11)	75-69-4
1-Chloro-1,1-difluoroethane (HCFC-142b)	75-68-3
Bromotrifluoromethane (Halon 1301)	75-63-8
Dibromodifluoromethane (Halon 1202)	75-61-6
HFC-23 (CHF3)	75-46-7
Chlorodifluoromethane (HCFC-22)	75-45-6
Dichlorofluoromethane (HCFC-21)	75-43-4
HFC-152a (C2H4F2)	75-37-6
HFC-32 (CH2F2)	75-10-5
Bromochloromethane	74-97-5
Bromoethane (ethyl bromide)	74-96-4
Chloromethane (methyl chloride)	74-87-3
Bromomethane (methyl bromide)	74-83-9
1,1,1-Trichloroethane (methyl chloroform) and its isomers except 1,1,2-trichloroethane	71-55-6
Tetrachloromethane (carbon tetrachloride)	56-23-5
Bromodifluoropropane	-
1,1,1,3-Tetrachloro-2,2,3,3-tetrafluoropropane (CFC-214cb)	-
1,1,2-Trichloropentafluoropropane (CFC-215bb)	-
1,1,3-Trichloropentafluoropropane (CFC-215ca)	-
Dibromotetrafluoropropane	-
Hexabromofluoropropane	-
Pentabromodifluoropropane	-
Pentabromofluoropropane	-
Tetrabromodifluoropropane	-
Tetrabromofluoropropane	-
Tetrabromotrifluoropropane	-
Tribromodifluoroethane	-
Tribromofluoroethane	-
Tribromotetrafluoropropane	-
Tribromotrifluoropropane	-
Other GHGs	-
Table-10: Polybrominated diphenylethers(PBDEs)	CAS No.
Heptabromodiphenyl ether (PBDE)	68928-80-3
Nonabromodiphenyl ether (PBDE)	63936-56-1
Tribromodiphenyl ether (PBDE)	49690-94-0
Tetrabromodiphenyl ether (PBDE)	40088-47-9
Hexabromodiphenyl ether (PBDE)	36483-60-0
Octabromodiphenyl ether (PBDE)	32536-52-0
Pentabromodiphenyl ether (PBDE)	32534-81-9

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Dibromodiphenyl ether (PBDE)	2050-47-7
Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5
4-Bromodiphenyl ether (PBDE)	101-55-3
Other PBDEs compounds	-